

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions, and listings of claims in the application. Applicants have submitted a new complete claim set showing marked up claims with insertions indicated by underlining and deletions indicated by strikeouts and/or double bracketing.

Listing of Claims:

1. (Previously Presented) A system for use in client/server computing comprising:
 - a client that interfaces with an applications program;
 - a client print spooler operating on the client, the applications program operable to communicate a print request to the client print spooler;
 - a user interface manager operating on the client and coupled to the client print spooler;
 - a first communications channel coupling, via a network, the client print spooler with a server print spooler operating on a print server, the print server distinct from the client, the print server coupled to a printer, wherein the first communications channel provides for communicating data from the application and for control of printing according to the print request; and
 - a second communications channel coupling, via the network, the client print spooler with the print server, the second communications channel distinct from the first communication channel, wherein the client print spooler receives messages from the printer via the print server via the second communications channel, and wherein the messages are provided as language neutral message from the print server and are

converted to language specific messages by the user interface manager and the language specific messages are presented to a user of the client.

2-5. (Canceled)

6. (Previously Presented) A system for use with a printer comprising:

a print server coupled to the printer;

a server print spooler operating on the print server, the server print spooler in communication with a client print spooler operating on a client, the communication via a first asynchronous communications channel, the client print spooler coupled to an applications program having a print capability, the applications program operable to communicate a print request to the client print spooler;

wherein the client includes a user interface manager that communicates with the print server by means of a second asynchronous communications channel, the second asynchronous channel distinct from the first asynchronous channel, and further wherein the user interface manager responds to a user interface message sent from the print server via the second asynchronous channel.

7. (Original) The system of claim 6 further comprising a user display and wherein the message sent to the client user interface manager is a language neutral message that is interpreted by the user interface manager and converted to another representation for the user display.

8. (Previously Presented) The system of claim 7 wherein the client user interface manager converts a globally unique identifier from the print server to a user understandable message on said display.

9. (Previously Presented) The system of claim 6 wherein the client print spooler receives data from the applications program for transmission to the server print spooler operating on print server via the first asynchronous communications channel and also wherein the print server communicates a message to the user interface manager via the second asynchronous communications channel and the client print spooler upon receipt of the print request from the applications program.

10. (Canceled)

11. (Previously Presented) The system of claim 6 wherein the user interface message is a language neutral message sent by the print server through the second asynchronous communications channel based on status of a print job being serviced by the print server.

12. (Canceled)

13. (Original) The system of claim 6 wherein the user interface manager interprets the message and loads an executable component that responds to receipt of said message based on the contents of said message.

14. (Original) The system of claim 13 wherein the executable component accesses resources used by the executable component to display a message on a display monitor.

15-24. (Canceled)

25. (Previously Presented) A computer readable medium for use in client/server computing comprising instructions for:

providing an interface for an application to communicate with a client print spooler operating on a client which in turn communicates with a server print spooler operating on a server, the client distinct from the server, said interface enabling the application to call a service routine on the server by means of an asynchronous remote procedure call, the service routine operable to service a print request of the application, the asynchronous remote procedure call made over a first communications channel, wherein the server is a print server; and

responding to language neutral messages from the server sent over a second communications channel to the client print spooler, the second communications channel being distinct from the first communications channel, by interpreting the language neutral messages, the interpreting performed by a user interface manager operating on the client and coupled to the client print spooler, and presenting a display in response to receipt of said language neutral messages understandable by a user.

26. (Previously Presented) The computer readable medium of claim 25 wherein the client user interface manager interprets the language neutral messages by converting them into language specific messages understandable by the user.

27. (Original) The computer readable medium of claim 25 wherein the server sends a globally unique identifier based on a status of said server and wherein the client converts said globally unique identifier to a user understandable message.

28. (Previously Presented) The computer readable medium of claim 25 wherein the client print spooler receives data from the application for transmission via the first communications channel to the server print spooler and also wherein the server communicates a message to the user interface manager via the second communications channel and the client print spooler upon receipt of the print request from the application.

29. (Canceled)

30. (Previously Presented) The computer readable medium of claim 26 wherein the user interface manager accesses an executable component upon receipt of the language neutral messages from the server and wherein the executable component accesses resources used by the executable component to display a message.